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Claims.

1. (currently amended) A single coil generator comprising:  
a rotor journaled in an generator frame, said rotor having a plurality of poles,  
a stator with a like number of salient poles, each including alternately wound coils  
5 ~~forming~~ coupled to form a single coil with two free ends, generating AC that is connected to an AC load.
2. (original) The generator of claim 1 wherein the output is split into AC and rectified DC.
3. (original) The generator of claim 2 wherein the AC output is connected to a first AC load  
through AC rated switches, and the rectified DC is connected to a second DC load  
through DC rated switches.
- 10 4. (original) The generator of claim 1 wherein the output is having any combinations of  
low and high voltage as well as AC and DC.
5. (original) The generator of claim 1 wherein said rotor is having claw-shaped magnetic poles.
6. (original) The generator of claim 1 wherein said rotor is having permanent magnet poles.
7. (original) The generator of claim 1 wherein said stator poles have same dimensional width  
15 as said rotor poles.
8. (original) The generator of claim 2 wherein the AC output is rectified by four diodes  
in a bridge circuit and then is connected to a DC load.
9. (currently amended) An output option generator with low loss switching devices comprising:  
a generator having a rotor with a plurality of poles, and a stator with a like number of salient poles,  
20 each including alternately wound coils ~~forming~~ coupled to form a single coil with two free ends ,  
its AC output connected to a first load through AC rated switches,  
said AC output rectified and connected to a second load through DC rated switches.
10. (original) The generator of claim 9 wherein said first load consists of incandescent lamps,  
heaters and AC motors, and wherein said second load consists of DC motors, actuators and a battery.

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11. (original) The generator of claim 9 wherein said first output is voltage regulated with Triac's or S.C.R.'s.
12. (original) The generator of claim 9 wherein the output is split into AC and rectified DC.
13. (original) The generator of claim 9 wherein the output is having any combinations of
- 5 low and high voltage as well as AC and DC.
14. (original) The generator of claim 9 wherein said rotor is having claw-shaped magnetic poles.
15. (original) The generator of claim 9 wherein said rotor is having permanent magnet poles.
16. (original) The generator of claim 9 wherein said stator poles have same dimensional width as said rotor poles.
- 10 17. (original) The generator of claim 9 wherein the AC output is rectified by four diodes in a bridge circuit and then is connected to a DC load.
18. (original) The generator of claim 9 wherein said four diodes are the sole diodes in the generator system.
19. (original) The generator of claim 1 wherein said alternately wound coils are in a position
- 15 in front of said rotor poles to generate AC at all times.
20. (original) The generator of claim 6 wherein its construction is brushless and void of slip rings.
21. (original) The generator of claim 8 wherein said D.C. load is having a capacitor connected across it.
22. (original) The generator of claim 2 wherein the AC output and the D.C. output have a common ground.